

- This is probably the best PID one can get for CLAS photon data taken with the Start Counter.
- ALL counters should go to TDCs, even if they are not included in trigger. That will reduce number of accidental tracks that do not belong to the same interaction. g6 did it right.
- With existing Start Counter some of the particles, especially low momentum particles, can hit ST without producing track. That will mess up timing for good particles and lead to misidentification or efficiency loss.
- In principle, this could be simulated in GSIM if we add accidental tracks to MC events. Similarly like we add now accidental tagger hits.
- We cannot really trust MVRT since we have track that have nothing to do with each other. We need some replacement with an option to select particular tracks in vertex finding.
- At this moment GPID deals with charged particles only. We need to implement ID for neutrons and gammas. Neutral ID in PART bank is not perfect either for two reasons. It uses MVRT, which might be wrong for some events, and it does not include neutral ID for particles that does not go to EC, but make hit SC instead. This is important for neutrons. Neutron detection efficiency in SC is 10 – 15%